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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,888	04/21/2004	Lijie Guan	HTIRC03-014	5853
STEPHEN B.	7590 04/09/2007 ACKERMAN	EXAMINER		
28 DAVIS AVENUE			TUGBANG, ANTHONY D	
POUGHKEEPSIE, NY 12603			ART UNIT	PAPER NUMBER
			3729	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MONTHS		04/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/828,888	GUAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	A. Dexter Tugbang	3729			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>08 Ja</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final.				
Disposition of Claims					
4) Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) 16-20 is/are withdraw 5) Claim(s) 1-15 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	pted or b) objected to by the E drawing(s) be held in abeyance. See on is required if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary (i Paper No(s)/Mail Dat 5) Notice of Informal Pa	e			
Paper No(s)/Mail Date <u>7/6/04</u> . 6) Other:					

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of the invention of Group I, Claims 1 through 15, in the reply filed on January 8, 2007 is acknowledged. The traversal is on the ground(s) that the field of search would necessarily cover both inventions, i.e. Groups I and II and thus, the restriction should be withdrawn. This is not found persuasive because the field of search for each would be non-coextensive being that: 1) the inventions belong in two completely different statutory classes (e.g. product and process of making), and 2) completely different search queries (e.g. text and class/subclass searching) for each invention would need to be conducted. Taking these factors into consideration would place a severe burden on the examiner to search and examine the inventions of Groups I and II.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 16 through 20 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on January 8, 2007.

Specification

3. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions,

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wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

- 4. The abstract of the disclosure is objected to because the content is directed to the claimed invention (e.g. process of making) of at least the process steps of Claim 1. Correction is required. See MPEP § 608.01(b).
- 5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --A Process of Manufacturing a Four Sided Shield
Structure for a Perpendicular Write Head--.

6. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required.

In Claim 1, the specification fails to provide proper antecedent basis for the phrase of "said side shields having opposing...by an amount" (lines 10-11).

The specification also fails to provide proper antecedent basis for the limitations of each of dependent Claims 3 through 15.

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Claim Objections

7. Claim 1 is objected to because of the following informalities: the language is awkwardly worded. The following changes are suggested to correct the grammar.

In Claim 1, --said first and second—should be inserted before "widths exceed" (line 11); and -length of—should be inserted before "write" (line 11); and "length" (line 11) should be deleted.

Appropriate correction is required.

Allowable Subject Matter

8. The following is a statement of reasons for the indication of allowable subject matter.

The prior art does not teach all of the limitations of the claimed invention including: placing a pair of side shields that contact the trailing shield, that have bottom surfaces coplanar with the air bearing surface, the side shields having opposing outer edges separated by an amount equaling the second width, whose first and second widths exceed the length of the write pole by an amount (as recited in Claim 1).

The closest prior art references are directed to Hsu et al (U. S. Patent 7,002,775) and Plumer et al (U. S. Patent) 7,100,266).

Hsu shows placing a pair of side shields (e.g. 44A, 44B) having bottom surfaces that are coplanar with an air bearing surface. However, Hsu does not teach that the opposing outer edges of the side shields are separated by an amount equaling a second width of the return pole. In Hsu, the width of the return pole (e.g. 43 in Fig. 2) is a distance that is much greater than the width amount of the opposing outer edges of the side shields. Furthermore, Hsu does not teach a

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write pole that is tapered to have an increasing width in a direction away from the air bearing surface.

Plumer shows a write pole (e.g. 180) that is tapered (at bevel 220) to have an increasing width in a direction away from the air bearing surface. However, Plumer does not teach a pair of side shields.

So to combine the references above would be impermissible hindsight since the combination would not meet all of the limitations of Claim 1.

9. Claims 1 through 15 are allowed.

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 11. This application is in condition for allowance except for the following formal matters:

To correct the informalities with the claims and specification as noted above and the cancellation of the non-elected claims.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 571-272-4570. The examiner can normally be reached on Monday - Friday 7:30 am - 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A. Dexter Tugbang Primary Examiner

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April 2, 2007